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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-02-21** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP,
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 18th main depot Muniswamappa layout K.G Halli and Surrounding Area in Ward No0.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/326/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-21 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT ON COARSE AGGREGATES

Format No: CP/TF/01

Lab ID	:	**CP-2018-05-02-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore. **Date: 04-05-18**
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 18th main depot Muniswamappa layout K.G Halli and Surrounding Area in Ward No0.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/DD/WO/326/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-21 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	86	86	1.7	98.3	90-100
3	10 mm	3586	3672	73.4	26.6	25-55
4	4.75 mm	1006	4678	93.6	6.4	0-10
5	Pan	322	5000	100	0	–

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Date: 04-05-18

Lab ID	:	**CP-2018-05-02-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.
Address	:	Shettyhalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 18th main depot Muniswamappa layout K.G Halli and Surrounding Area in Ward No0.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/326/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-18
Sample ID No	:	2018-05-02-21 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-05-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	508	623	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	529	642	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	537	658	19.5%	Satisfactory	Satisfactory

Note:

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-05-14-05

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Date: 16/05/2018

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 18th main depot Muniswamappa layout K.G Halli and Surrounding Area in Ward No0.12 Shettyhalli, Shettyhalli Sub Division.

Agency : Technical Manager(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/326/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-05-18

Sample ID No : 2018-05-14-05 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/05/2018	16/05/2018	150.25 X 150.34 X 150.35	22589	8.311	388.5	17.2	17.5
2	Drain Concrete	M20	09/05/2018	16/05/2018	150.20 X 150.34 X 150.35	22581	8.231	392.9	17.4	
3	Drain Concrete	M20	09/05/2018	16/05/2018	150.22 X 150.34 X 150.35	22584	8.261	404.3	17.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-05-14-05

Date: 16/05/2018

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 18th main depot Muniswamappa layout K.G Halli and Surrounding Area in Ward No0.12 Shettyhalli, Shettyhalli Sub Division.

Agency : Technical Manager(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/326/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-05-18

Sample ID No : 2018-05-14-05 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/05/2018	16/05/2018	150.35 X 150.34 X 150.25	22604	8.311	382.0	16.9	16.8
2	Drain Concrete	M20	09/05/2018	16/05/2018	150.30 X 150.34 X 150.25	22596	8.231	372.8	16.5	
3	Drain Concrete	M20	09/05/2018	16/05/2018	150.32 X 150.24 X 150.25	22584	8.261	386.2	17.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-05-14-05

Date: 07/06/2018

Customer : Assistant Executive Engineer, Shettyhalli Sub division, BBMP, Bangalore.

Address : Shettyhalli Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 18th main depot Muniswamappa layout K.G Halli and Surrounding Area in Ward No0.12 Shettyhalli, Shettyhalli Sub Division.

Agency : Technical Manager(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/326/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-05-18

Sample ID No : 2018-05-14-05 /08

Customer ID : C.C Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C.C Road	M20	10/05/2018	07/06/2018	150.21 X 150.28 X 150.27	22574	8.291	503.4	22.3	22.3
2	C.C Road	M20	10/05/2018	07/06/2018	150.25 X 150.27 X 150.28	22578	8.312	499.0	22.1	
3	C.C Road	M20	10/05/2018	07/06/2018	150.32 X 150.34 X 150.35	22599	8.344	508.5	22.5	

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